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Bayesian and diagnostic and case and cause

PAT.
NO.

Title

- 1 [7,043,476](#) **I** [Method and apparatus for data mining to discover associations and covariances associated with data](#)
- 2 [7,043,348](#) **I** [Transient fault detection system and method](#)
- 3 [7,027,953](#) **I** [Method and system for diagnostics and prognostics of a mechanical system](#)
- 4 [7,026,623](#) **I** [Efficient single photon emission imaging](#)
- 5 [7,024,399](#) **I** [Computer architecture and process of patient generation, evolution, and simulation for computer based testing system using bayesian networks as a scripting language](#)
- 6 [7,023,979](#) **I** [Telephony control system with intelligent call routing](#)
- 7 [7,020,521](#) **I** [Methods and apparatus for detecting and/or monitoring heart failure](#)
- 8 [7,020,314](#) **I** [Black blood angiography method and apparatus](#)
- 9 [7,016,056](#) **I** [Authoring tool for bayesian network diagnostic systems](#)
- 10 [7,013,239](#) **I** [Apparatus and method for performance and fault data analysis](#)
- 11 [7,008,380](#) **I** [Automatic lung parameter estimator](#)
- 12 [7,006,881](#) **I** [Media recording device with remote graphic user interface](#)
- 13 [7,002,478](#) **I** [Smoke and flame detection](#)
- 14 [6,996,549](#) **I** [Computer-aided image analysis](#)
- 15 [6,996,478](#) **I** [Multiple sensing system and device](#)
- 16 [6,993,675](#) **I** [Method and system for monitoring problem resolution of a machine](#)
- 17 [6,993,378](#) **I** [Identification by analysis of physiometric variation](#)
- 18 [6,993,193](#) **I** [Method and system of object classification employing dimension reduction](#)
- 19 [6,983,266](#) **I** [Compliance monitoring for anomaly detection](#)
- 20 [6,982,842](#) **I** [Predictive disc drive failure methodology](#)
- 21 [6,981,423](#) **I** [System and method for sensing torque on a rotating shaft](#)
- 22 [6,978,244](#) **I** [Computer architecture and process of patient generation, evolution, and simulation for](#)

computer based testing system

- 23 6,975,942 **I** Underground utility detection system and method
 - 24 6,975,899 **I** Multi-modal optical tissue diagnostic system
 - 25 6,970,560 **I** Method and apparatus for impairment diagnosis in communication systems
 - 26 6,960,570 **I** Compositions and methods for the therapy and diagnosis of lung cancer
 - 27 6,957,202 **I** Model selection for decision support systems
 - 28 6,955,648 **I** Precision brain blood flow assessment remotely in real time using nanotechnology ultrasound
 - 29 6,948,381 **I** System and method for sensing torque on a rotating shaft
 - 30 6,947,583 **I** Histological reconstruction and automated image analysis
 - 31 6,937,776 **I** Method, system, and computer program product for computer-aided detection of nodules with three dimensional shape enhancement filters
 - 32 6,936,476 **I** Point of care diagnostic systems
 - 33 6,934,748 **I** Automated on-line experimentation to measure users behavior to treatment for a set of content elements
 - 34 6,931,326 **I** Methods for obtaining and using haplotype data
 - 35 6,919,211 **I** Polypeptide arrays
 - 36 6,917,839 **I** Surveillance system and method having an operating mode partitioned fault classification model
 - 37 6,908,740 **I** Methods and apparatus for gel-free qualitative and quantitative proteome analysis, and uses therefore
 - 38 6,906,320 **I** Mass spectrometry data analysis techniques
 - 39 6,898,737 **I** Automatic classification of event data
 - 40 6,892,163 **I** Surveillance system and method having an adaptive sequential probability fault detection test
 - 41 6,882,990 **I** Methods of identifying biological patterns using multiple data sets
 - 42 6,879,973 **I** Automated diagnosis of printer systems using bayesian networks
 - 43 6,870,901 **I** Design and architecture of an impairment diagnosis system for use in communications systems
 - 44 6,868,358 **I** Method for processing information in a tire pressure monitoring system
 - 45 6,868,319 **I** Diagnostic system and method
 - 46 6,867,051 **I** Point of care diagnostic systems
 - 47 6,862,710 **I** Internet navigation using soft hyperlinks
 - 48 6,862,414 **I** Automated banding defect analysis and repair for document processing systems
 - 49 6,855,114 **I** Automated method and system for the detection of abnormalities in sonographic images
 - 50 6,852,488 **I** Identifying a base in a nucleic acid

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- | PAT.
NO. | Title |
|-------------|--|
| 51 | 6,850,252 Intelligent electronic appliance system and method |
| 52 | 6,847,854 System and method for dynamic multi-objective optimization of machine selection, integration and utilization |
| 53 | 6,842,638 Angiography method and apparatus |
| 54 | 6,839,636 Multiple sensing system and device |
| 55 | 6,834,256 Method and system for determining motor reliability |
| 56 | 6,832,069 Latent property diagnosing procedure |
| 57 | 6,826,486 Methods and apparatus for predicting pore and fracture pressures of a subsurface formation |
| 58 | 6,820,072 Validation of probabilistic troubleshooters and diagnostic system |
| 59 | 6,817,980 Automated diagnostic system and method including disease timeline |
| 60 | 6,811,310 Methods and devices for analysis of X-ray images |
| 61 | 6,810,312 Method for identifying a loss of utilization of mobile assets |
| 62 | 6,795,808 User interface/entertainment device that simulates personal interaction and charges external database with relevant data |
| 63 | 6,792,399 Combination forecasting using clusterization |
| 64 | 6,789,091 Method and system for web-based analysis of drug adverse effects |
| 65 | 6,789,069 Method for enhancing knowledge discovered from biological data using a learning machine |
| 66 | 6,785,636 Fault diagnosis in a complex system, such as a nuclear plant, using probabilistic reasoning |
| 67 | 6,782,345 Systems and methods for diagnosing electronic systems |

- 68 6,772,374 Continuous language-based prediction and troubleshooting tool
69 6,767,325 Automated diagnostic system and method including synergies
70 6,764,447 Automated diagnostic system and method including alternative symptoms
71 6,760,715 Enhancing biological knowledge discovery using multiples support vector machines
72 6,760,401 Apparatus and method for processing of digital images
73 6,759,200 Thymidine phosphorylase gene sequence variances having utility in determining the treatment of disease
74 6,751,553 Utility mapping and data distribution system and method
75 6,746,399 Automated diagnostic system and method including encoding patient data
76 6,740,038 Systems and methods for assessing vascular effects of a treatment
77 6,737,514 Compositions and methods for the therapy and diagnosis of lung cancer
78 6,735,596 Computer method and user interface for decision analysis and for global system optimization
79 6,731,307 User interface/entertainment device that simulates personal interaction and responds to user's mental state and/or personality
80 6,730,027 Automated diagnostic system and method including multiple diagnostic modes
81 6,728,692 Apparatus for a multi-modal ontology engine
82 6,728,679 Self-updating user interface/entertainment device that simulates personal interaction
83 6,728,567 Method and apparatus for high-resolution detection and characterization of medical pathologies
84 6,723,051 Systems and methods for assessing vascular health
85 6,721,706 Environment-responsive user interface/entertainment device that simulates personal interaction
86 6,714,925 System for identifying patterns in biological data using a distributed network
87 6,708,165 Wide-spectrum information search engine
88 6,704,662 Technique for quantitating biological markers using quantum resonance interferometry
89 6,699,193 Decision support systems and methods for assessing vascular health
90 6,692,443 Systems and methods for investigating blood flow
91 6,691,249 Probabilistic diagnosis, in particular for embedded and remote applications
92 6,690,761 Methods and devices for analysis of X-ray images
93 6,687,685 Automated medical decision making utilizing bayesian network knowledge domain modeling
94 6,683,455 Methods for spectral analysis and their applications: spectral replacement
95 6,678,669 Method for selecting medical and biochemical diagnostic tests using neural network-related applications
96 6,673,908 Tumor necrosis factor receptor 2
97 6,667,394 Printing oligonucleotide arrays
98 6,665,652 Method of diagnosis of lyme disease
99 6,665,425 Systems and methods for automated image quality based diagnostics and remediation of document processing systems
100 6,664,062 Thymidylate synthase gene sequence variances having utility in determining the treatment of disease

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NO. Title

- 101 [6,658,467](#) **T** Provision of informational resources over an electronic network
- 102 [6,658,395](#) **T** Enhancing knowledge discovery from multiple data sets using multiple support vector machines
- 103 [6,656,695](#) **T** Biomap characterization of biologically active agents
- 104 [6,656,122](#) **T** Systems and methods for screening for adverse effects of a treatment
- 105 [6,655,963](#) **T** Methods and apparatus for predicting and selectively collecting preferences based on personality diagnosis
- 106 [6,655,922](#) **T** System and method for detecting and diagnosing pump cavitation
- 107 [6,651,034](#) **T** Apparatus and method for performance and fault data analysis
- 108 [6,647,341](#) **T** Methods for classifying samples and ascertaining previously unknown classes
- 109 [6,641,532](#) **T** Computerized medical diagnostic system utilizing list-based processing
- 110 [6,640,145](#) **T** Media recording device with packet data interface
- 111 [6,636,623](#) **T** Optical projection imaging system and method for automatically detecting cells with molecular marker compartmentalization associated with malignancy and disease
- 112 [6,634,000](#) **T** Analyzing fault logs and continuous data for diagnostics for a locomotive
- 113 [6,633,861](#) **T** Automatic invocation of computational resources without user intervention across a network
- 114 [6,611,630](#) **T** Method and apparatus for automatic shape characterization
- 115 [6,611,206](#) **T** Automatic system for monitoring independent person requiring occasional assistance
- 116 [6,610,482](#) **T** Support bound probes and methods of analysis using the same
- 117 [6,609,523](#) **T** Computer based business model for a statistical method for the diagnosis and treatment of BPPV

T

- 118 [6,607,888](#) Method for analyzing nucleic acid reactions

119 [6,606,615](#) **T** Forecasting contest

120 [6,601,055](#) **T** Explanation generation system for a diagnosis support tool employing an inference system

121 [6,599,912](#) **T** Methods and compositions for modulating cell proliferation and cell death

122 [6,591,257](#) **T** Apparatus and method for a compositional decision support reasoning system

123 [6,584,455](#) **T** System and method for predicting design errors in integrated circuits

124 [6,574,537](#) **T** Diagnostic system and method

125 [6,569,093](#) **T** Automated diagnostic system and method including disease timeline

126 [6,562,869](#) **T** Nutritional supplement for increased energy and stamina

127 [6,553,548](#) **T** System and method for recovering from design errors in integrated circuits

128 [6,553,356](#) **T** Multi-view computer-assisted diagnosis

129 [6,537,759](#) **T** Folylpolyglutamate synthetase gene sequence variances having utility in determining the treatment of disease

130 [6,535,865](#) **T** Automated diagnosis of printer systems using Bayesian networks

131 [6,531,315](#) **T** Compositions and methods for the therapy and diagnosis of lung cancer

132 [6,529,888](#) **T** Generating improved belief networks

133 [6,527,713](#) **T** Automated diagnostic system and method including alternative symptoms

134 [6,524,241](#) **T** Automated diagnostic system and method including multiple diagnostic modes

135 [6,519,355](#) **T** Optical projection imaging system and method for automatically detecting cells having nuclear and cytoplasmic densitometric features associated with disease

136 [6,510,406](#) **T** Inverse inference engine for high performance web search

137 [6,507,633](#) **T** Method for statistically reconstructing a polyenergetic X-ray computed tomography image and image reconstructor apparatus utilizing the method

138 [6,502,039](#) **T** Mathematical analysis for the estimation of changes in the level of gene expression

139 [6,496,713](#) **T** Ferromagnetic foreign body detection with background canceling

140 [6,493,637](#) **T** Coincidence detection method, products and apparatus

141 [6,480,814](#) **T** Method for creating a network model of a dynamic system of interdependent variables from system observations

142 [6,479,069](#) **T** Nutritional supplement for increased energy and stamina

143 [6,475,143](#) **T** Automated diagnostic system and method including encoding patient data

144 [6,473,084](#) **T** Prediction input

145 [6,468,210](#) **T** Automated diagnostic system and method including synergies

146 [6,466,687](#) **T** Method and apparatus for analyzing CT images to determine the presence of pulmonary tissue pathology

147 [6,456,622](#) **T** Method for knowledge acquisition for diagnostic bayesian networks

148 [6,446,027](#) **T** Intelligent analysis system and method for fluid-filled electrical equipment

149 [6,442,694](#) **T** Fault isolation for communication networks for isolating the source of faults comprising attacks, failures, and other network propagating errors

150 [6,440,667](#) **T** Analysis of target molecules using an encoding system

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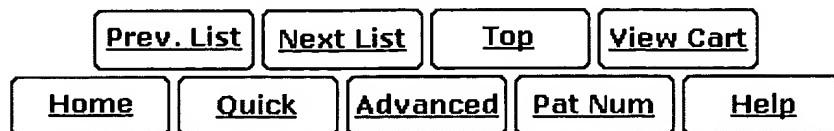
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NO. Title

- 151 [6,427,141](#) **T** [Enhancing knowledge discovery using multiple support vector machines](#)
152 [6,426,072](#) **T** [Compositions and methods for the therapy and diagnosis of lung cancer](#)
153 [6,418,424](#) **T** [Ergonomic man-machine interface incorporating adaptive pattern recognition based control system](#)
154 [6,415,276](#) **T** [Bayesian belief networks for industrial processes](#)
155 [6,408,107](#) **T** [Rapid convolution based large deformation image matching via landmark and volume imagery](#)
156 [6,405,108](#) **T** [Process and system for developing predictive diagnostics algorithms in a machine](#)
157 [6,403,320](#) **T** [Support bound probes and methods of analysis using the same](#)
158 [6,400,996](#) **T** [Adaptive pattern recognition based control system and method](#)
159 [6,394,952](#) **T** [Point of care diagnostic systems](#)
160 [6,385,474](#) **T** [Method and apparatus for high-resolution detection and characterization of medical pathologies](#)
161 [6,381,349](#) **T** [Projector/backprojector with slice-to-slice blurring for efficient 3D scatter modeling](#)
162 [6,379,895](#) **T** [Photolithographic and other means for manufacturing arrays](#)
163 [6,355,432](#) **T** [Products for detecting nucleic acids](#)
164 [6,338,152](#) **T** [Method and system for remotely managing communication of data used for predicting malfunctions in a plurality of machines](#)
165 [6,335,361](#) **T** [Method of treating benign forgetfulness](#)
166 [6,324,659](#) **T** [Method and system for identifying critical faults in machines](#)
167 [6,309,823](#) **T** [Arrays of nucleic acid probes for analyzing biotransformation genes and methods of using the same](#)

T

- 168 [6,295,525](#) Automatic invocation of computational resources without user intervention across a network
- 169 [6,292,108](#) I Modular, wireless damage monitoring system for structures
- 170 [6,286,363](#) I Integrated multi-element lubrication sensor and health lubricant assessment system
- 171 [6,284,460](#) I Hybridization and sequencing of nucleic acids using base pair mismatches
- 172 [6,270,456](#) I Computerized medical diagnostic system utilizing list-based processing
- 173 [6,268,152](#) I Probe kit for identifying a base in a nucleic acid
- 174 [6,267,722](#) I Point of care diagnostic systems
- 175 [6,264,616](#) I Acoustic tumor detection using stacked derived-band ABR amplitude
- 176 [6,246,975](#) I Computer architecture and process of patient generation, evolution, and simulation for computer based testing system
- 177 [6,243,628](#) I System and method for predicting impending failures in a locomotive
- 178 [6,239,273](#) I Printing molecular library arrays
- 179 [6,236,870](#) I Photonic molecular probe
- 180 [6,221,592](#) I Computer-based methods and systems for sequencing of individual nucleic acid molecules
- 181 [6,219,626](#) I Automated diagnostic system
- 182 [6,212,502](#) I Modeling and projecting emotion and personality from a computer user interface
- 183 [6,196,057](#) I Integrated multi-element lubrication sensor and lubricant health assessment
- 184 [6,195,594](#) I Real-time planner for design
- 185 [6,185,534](#) I Modeling emotion and personality in a computer user interface
- 186 [6,157,921](#) I Enhancing knowledge discovery using support vector machines in a distributed network environment
- 187 [6,153,115](#) I Monitor of plasma processes with multivariate statistical analysis of plasma emission spectra
- 188 [6,128,608](#) I Enhancing knowledge discovery using multiple support vector machines
- 189 [6,095,982](#) I Spectroscopic method and apparatus for optically detecting abnormal mammalian epithelial tissue
- 190 [6,081,750](#) I Ergonomic man-machine interface incorporating adaptive pattern recognition based control system
- 191 [6,080,112](#) I Acoustic tumor detection using stacked derived-band ABR amplitude
- 192 [6,076,083](#) I Diagnostic system utilizing a Bayesian network model having link weights updated experimentally
- 193 [6,049,792](#) I Automatic invocation of computational resources without user intervention across a network
- 194 [6,041,182](#) I Automatic invocation of computational resources without user intervention
- 195 [6,027,880](#) I Arrays of nucleic acid probes and methods of using the same for detecting cystic fibrosis
- 196 [6,027,446](#) I Pubic arch detection and interference assessment in transrectal ultrasound guided prostate cancer therapy
- 197 [6,025,128](#) I Prediction of prostate cancer progression by analysis of selected predictive parameters
- 198 [6,024,705](#) I Automated seismic detection of myocardial ischemia and related measurement of cardiac output parameters
- 199 [5,989,811](#) I Sextant core biopsy predictive mechanism for non-organ confined disease status
- 200 [5,987,415](#) I Modeling a user's emotion and personality in a computer user interface





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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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- 1. **Decision-theoretic case-based reasoning**
Breese, J.S.; Heckerman, D.;
[Systems, Man and Cybernetics, Part A, IEEE Transactions on](#)
Volume 26, Issue 6, Nov. 1996 Page(s):838 - 842
Digital Object Identifier 10.1109/3468.541343
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(552 KB\)](#) IEEE JNL
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- 2. **Evidence-based Bayesian networks approach to airplane maintenance**
Kiperszlo, O.; Dildy, G.A.;
[Neural Networks, 2002. IJCNN '02. Proceedings of the 2002 International Joint Conference on](#)
Volume 3, 12-17 May 2002 Page(s):2887 - 2891
Digital Object Identifier 10.1109/IJCNN.2002.1007607
[AbstractPlus](#) | Full Text: [PDF\(563 KB\)](#) IEEE CNF
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- 3. **A probability-based expert system for diagnosing pacemaker-related complications**
Chiang, C.J.; Bernstein, A.D.; Parsonnet, V.;
[Computers in Cardiology 1994](#)
25-28 Sept. 1994 Page(s):89 - 92
Digital Object Identifier 10.1109/CIC.1994.470242
[AbstractPlus](#) | Full Text: [PDF\(332 KB\)](#) IEEE CNF
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- 4. **Automatic Image Hanging Protocol for Chest Radiographs In PACS**
Luo, H.; Hao, W.; Foos, D.H.; Cornelius, C.W.;
[Information Technology in Biomedicine, IEEE Transactions on](#)
Volume 10, Issue 2, April 2006 Page(s):302 - 311
Digital Object Identifier 10.1109/TITB.2005.859872
[AbstractPlus](#) | Full Text: [PDF\(328 KB\)](#) IEEE JNL
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- 5. **Causal Reasoning Engine: An Explanation-Based Approach to Syndromic Surveillance**
Perry, B.B.; Van Allen, T.;
[System Sciences, 2005. HICSS '05. Proceedings of the 38th Annual Hawaii International Conference on](#)
03-06 Jan. 2005 Page(s):143b - 143b
Digital Object Identifier 10.1109/HICSS.2005.136
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1 Mini-buckets: A general scheme for bounded inference

Rina Dechter, Irina Rish

 March 2003 **Journal of the ACM (JACM)**, Volume 50 Issue 2

Publisher: ACM Press

 Full text available: [pdf\(902.27 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article presents a class of approximation algorithms that extend the idea of bounded-complexity inference, inspired by successful constraint propagation algorithms, to probabilistic inference and combinatorial optimization. The idea is to bound the dimensionality of dependencies created by inference algorithms. This yields a parameterized scheme, called *mini-buckets*, that offers adjustable trade-off between accuracy and efficiency. The mini-bucket approach to optimization problems, s ...

Keywords: Accuracy/complexity trade-off, Bayesian networks, approximation algorithms, combinatorial optimization, probabilistic inference.

2 Special issue on the fusion of domain knowledge with data for decision support:

Combining knowledge from different sources in causal probabilistic models

Marek J. Druzdzel, Francisco J. Díez

 December 2003 **The Journal of Machine Learning Research**, Volume 4

Publisher: MIT Press

 Full text available: [pdf\(140.32 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Building probabilistic and decision-theoretic models requires a considerable knowledge engineering effort in which the most daunting task is obtaining the numerical parameters. Authors of Bayesian networks usually combine various sources of information, such as textbooks, statistical reports, databases, and expert judgement. In this paper, we demonstrate the risks of such a combination, even when this knowledge encompasses such seemingly population-independent characteristics as sensitivity and ...

3 Haskell ready to dazzle the real world

Martijn M. Schrage, Arjan van IJzendoorn, Linda C. van der Gaag

 September 2005 **Proceedings of the 2005 ACM SIGPLAN workshop on Haskell Haskell '05**
Publisher: ACM Press

 Full text available: [pdf\(194.30 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Haskell has proved itself to be a suitable implementation language for large software projects. Nevertheless, surprisingly few graphical end-user applications have been written in Haskell. Based on our experience with the development of the Bayesian network toolbox

Dazzle, we argue that the language is indeed very well suited for writing such applications. Popular language features, such as higher-order functions, laziness, and light syntax for data structures, turn out to hold their ground in a ...

Keywords: application, bayesian networks, graphical user interface, haskell, wxHaskell

4 Full Technical Papers: Evolution of user interaction: the case of agent adele

 W. Lewis Johnson, Erin Shaw, Andrew Marshall, Catherine LaBore
January 2003 **Proceedings of the 8th international conference on Intelligent user interfaces**

Publisher: ACM Press

Full text available:  [pdf\(391.75 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Animated pedagogical agents offer promise as a means of making computer-aided learning more engaging and effective. To achieve this, an agent must be able to interact with the learner in a manner that appears believable, and that furthers the pedagogical goals of the learning environment. In this paper we describe how the user interaction model of one pedagogical agent evolved through an iterative process of design and user testing. The pedagogical agent Adele assists students as they assess and ...

Keywords: interface agents, proactive and agent-based paradigms, social intelligence, user studies

5 An impact analysis method for safety-critical user interface design

 Julia Galliers, Alistair Sutcliffe, Shailey Minocha
December 1999 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 6 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(248.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We describe a method of assessing the implications for human error on user interface design of safety-critical systems. In previous work we have proposed a taxonomy of influencing factors that contribute to error. In this article, components of the taxonomy are combined into a mathematical and causal model for error, represented as a Bayesian Belief Net (BBN). The BBN quantifies error influences arising from user knowledge, ability, and the task environment, combined with factors describin ...

Keywords: Bayesian belief networks, human error, safety-critical, scenario-based causal analysis

6 Industry/government track posters: ANN quality diagnostic models for packaging

 manufacturing: an industrial data mining case study
Nicolás de Abajo, Alberto B. Diez, Vanesa Lobato, Sergio R. Cuesta
August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**

Publisher: ACM Press

Full text available:  [pdf\(1.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

World steel trade becomes more competitive every day and new high international quality standards and productivity levels can only be achieved by applying the latest computational technologies. Data driven analysis of complex processes is necessary in many industrial applications where analytical modeling is not possible. This paper presents the deployment of KDD technology in one real industrial problem: the development of new tinplate quality diagnostic models. The electrodeposition of tin on s ...

Keywords: ANNs, CRISP-DM, FMEA, tinplate quality

7 Probabilistic fault localization in communication systems using belief networksMałgorzata Steinder, Adarshpal S. SethiOctober 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 5**Publisher:** IEEE PressFull text available:  pdf(630.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We apply Bayesian reasoning techniques to perform fault localization in complex communication systems while using dynamic, ambiguous, uncertain, or incorrect information about the system structure and state. We introduce adaptations of two Bayesian reasoning techniques for polytrees, iterative belief updating, and iterative most probable explanation. We show that these approximate schemes can be applied to belief networks of arbitrary shape and overcome the inherent exponential complexity ass ...

Keywords: fault localization, probabilistic inference, root cause diagnosis**8 Switch directed dynamic causal networks—a paradigm for electronic system**R. M. McDermott, D. SternOctober 1987 **Proceedings of the 24th ACM/IEEE conference on Design automation****Publisher:** ACM PressFull text available:  pdf(713.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Electronic Systems Diagnosis, be it at the Device, Board, or System level, is a complex and time consuming task. Various techniques have been developed to provide design aids to the maintenance technician, each with its own successes and limitations, typically in terms of performance versus complexity issues. This paper demonstrates a novel integration of such techniques to provide for an effective and efficient approach to expert diagnosis of complex systems. The integration of ...

9 On inclusion-driven learning of bayesian networksRobert Castelo, Tomás KockaDecember 2003 **The Journal of Machine Learning Research**, Volume 4**Publisher:** MIT PressFull text available:  pdf(980.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Two or more Bayesian network structures are Markov equivalent when the corresponding acyclic digraphs encode the same set of conditional independencies. Therefore, the search space of Bayesian network structures may be organized in equivalence classes, where each of them represents a different set of conditional independencies. The collection of sets of conditional independencies obeys a partial order, the so-called "inclusion order." This paper discusses in depth the role that the inclusion ord ...

10 The design of an attorney's statistical consultant

L. S. Lutomski

May 1989 **Proceedings of the 2nd international conference on Artificial intelligence and law****Publisher:** ACM PressFull text available:  pdf(1.05 MB) Additional Information: [full citation](#), [references](#), [index terms](#)**11 Learning Hidden Variable Networks: The Information Bottleneck Approach**

Gal Elidan, Nir Friedman

January 2005 **The Journal of Machine Learning Research**, Volume 6**Publisher:** MIT PressFull text available:  pdf(744.77 KB) Additional Information: [full citation](#), [abstract](#)

A central challenge in learning probabilistic graphical models is dealing with domains that

involve hidden variables. The common approach for learning model parameters in such domains is the *expectation maximization* (EM) algorithm. This algorithm, however, can easily get trapped in sub-optimal local maxima. Learning the model *structure* is even more challenging. The *structural EM* algorithm can adapt the structure in the presence of hidden variables, but usually performs poorl ...

12 Capturing, indexing, clustering, and retrieving system history

 Ira Cohen, Steve Zhang, Moises Goldszmidt, Julie Symons, Terence Kelly, Armando Fox
October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**, Volume 39 Issue 5

Publisher: ACM Press

Full text available:  pdf(516.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a method for automatically extracting from a running system an indexable *signature* that distills the essential characteristic from a system state and that can be subjected to automated clustering and similarity-based retrieval to identify when an observed system state is similar to a previously-observed state. This allows operators to identify and quantify the frequency of recurrent problems, to leverage previous diagnostic efforts, and to establish whether problems seen at dif ...

Keywords: bayesian networks, clustering, information retrieval, performance objectives, signatures

13 System design methodologies: Any-time probabilistic switching model using bayesian networks

 Shiva Shankar Ramani, Sanjukta Bhanja
August 2004 **Proceedings of the 2004 international symposium on Low power electronics and design**

Publisher: ACM Press

Full text available:  pdf(72.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Modeling and estimation of switching activities remain to be important problems in low-power design and fault analysis. A probabilistic Bayesian Network based switching model can explicitly model all spatio-temporal dependency relationships in a combinational circuit, resulting in zero-error estimates. However, the space-time requirements of exact estimation schemes, based on this model, increase with circuit complexity [1, 2]. This paper explores a non-simulative, Importance Sampling bas ...

Keywords: bayesian networks, power estimation, probabilistic modeling

14 Simulation coverage and generation for verification: Coverage directed test generation for functional verification using bayesian networks

 Shai Fine, Avi Ziv
June 2003 **Proceedings of the 40th conference on Design automation**

Publisher: ACM Press

Full text available:  pdf(162.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Functional verification is widely acknowledged as the bottleneck in the hardware design cycle. This paper addresses one of the main challenges of simulation based verification (or dynamic verification), by providing a new approach for *Coverage Directed Test Generation* (CDG). This approach is based on Bayesian networks and computer learning techniques. It provides an efficient way for closing a feedback loop from the coverage domain back to a generator that produces new stimuli to the test ...

Keywords: bayesian networks, coverage analysis, functional verification

15 Integrating logic, object-oriented and procedural paradigms in a fault diagnosis and monitoring system

 Gerhard Fleischanderl, Gerhard Friedrich, Wolfgang Neijdl, Johannes Retti

June 1989 **Proceedings of the 2nd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 IEA/AIE '89**

Publisher: ACM Press

Full text available:  pdf(589.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes ARTEX, a knowledge based system developed for quality assurance and fault localization in audio routing systems. Our system covers a large class of routing systems which may be flexibly configured. ARTEX uses an object-oriented model to represent the generic concepts and individual configurations. Fault localization strategies are realized by methods associated with objects and by heuristic rules focusing the diagnostic search.

16 On linear potential functions for approximating Bayesian computations

 Eugene Santos

May 1996 **Journal of the ACM (JACM)**, Volume 43 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.95 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Probabilistic reasoning suffers from NP-hard implementations. In particular, the amount of probabilistic information necessary to the computations is often overwhelming. For example, the size of conditional probability tables in Bayesian networks has long been a limiting factor in the general use of these networks. We present a new approach for manipulating the probabilistic information given. This approach avoids being overwhelmed by essentially compressing the information using ...

Keywords: artificial intelligence, data compaction and compression, integer programming, least squares approximation, pattern recognition, probabilistic reasoning, uncertainty

17 Approximation algorithms for the vertex feedback set problem with applications to constraint satisfaction and Bayesian inference

Reuven Bar-Yehuda, Dan Geiger, Joseph (Seffi) Naor, Ron M. Roth

January 1994 **Proceedings of the fifth annual ACM-SIAM symposium on Discrete algorithms**

Publisher: Society for Industrial and Applied Mathematics

Full text available:  pdf(1.24 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Book review: Abduetive Inference Models for Diagnostic Problem Solving by Y. Peng and J. Reggia (Springer Verlag New York 1990)

 Paul Thagard

November 1990 **ACM SIGART Bulletin**, Volume 2 Issue 1

Publisher: ACM Press

Full text available:  pdf(543.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

In the spring of 1990, the American Association for Artificial Intelligence sponsored a symposium on abductive inference, bringing together several dozen researchers (O'Rourke 1990). The term "abduction" as a form of inference originated with C.S. Peirce in the 1890s, and was introduced in artificial intelligence by Pople (1973). In recent years, it has found increasing use by researchers working on a diverse set of topics, particularly medical diagnosis, scientific discovery, and natural languag ...

19 The history of the use of computers in the interpretation of radiological images



G. S. Lodwick
December 1987 **Proceedings of ACM conference on History of medical informatics**

Publisher: ACM Press

Full text available: [pdf\(1.19 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

20 [Model Averaging for Prediction with Discrete Bayesian Networks](#)

Denver Dash, Gregory F. Cooper

December 2004 **The Journal of Machine Learning Research**, Volume 5

Publisher: MIT Press

Full text available: [pdf\(267.17 KB\)](#) Additional Information: [full citation](#), [abstract](#)

In this paper we consider the problem of performing Bayesian model-averaging over a class of discrete Bayesian network structures consistent with a partial ordering and with bounded in-degree k . We show that for N nodes this class contains in the worst-case at least  distinct network structures, and yet model averaging over these structures can be performed using  ...

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Relevance scale

21 Emotionware



Lynellen D. S. Perry

September 1996 **Crossroads**, Volume 3 Issue 1**Publisher:** ACM PressFull text available: [html\(29.71 KB\)](#) Additional Information: [full citation](#), [index terms](#)

22 Coding-based schemes for fault identification in communication networks

Chi-Chun Lo, Shing-Hong Chen, Bon-Yeh Lin

May 2000 **International Journal of Network Management**, Volume 10 Issue 3**Publisher:** John Wiley & Sons, Inc.Full text available: [pdf\(247.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes two event correlation schemes for fault identification in communication networks. The causality graph model is used to describe the cause-and-effect relationships between network events. Copyright © 2000 John Wiley & Sons, Ltd.



23 Efficient reasoning



Russell Greiner, Christian Darken, N. Iwan Santoso

March 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 1**Publisher:** ACM PressFull text available: [pdf\(445.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Many tasks require “reasoning”—i.e., deriving conclusions from a corpus of explicitly stored information—to solve their range of problems. An ideal reasoning system would produce all-and-only the correct answers to every possible query, produce answers that are as specific as possible, be expressive enough to permit any possible fact to be stored and any possible query to be asked, and be (time) efficient

Keywords: efficiency trade-offs, soundness/completeness/expressibility

24 Research track posters: Estimating the size of the telephone universe: a Bayesian Mark-recapture approach



David Poole

August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04****Publisher:** ACM PressFull text available: [pdf\(148.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mark-recapture models have for many years been used to estimate the unknown sizes of

animal and bird populations. In this article we adapt a finite mixture mark-recapture model in order to estimate the number of active telephone lines in the USA. The idea is to use the calling patterns of lines that are observed on the long distance network to estimate the number of lines that do not appear on the network. We present a Bayesian approach and use Markov chain Monte Carlo methods to obtain inferenc ...

Keywords: Bayesian inference

25 Diagnosis, parsimony, and genetic algorithms

 Walter D. Potter, B. E. Tonn, M. R. Hilliard, G. E. Liepins, S. L. Purucker, R. T. Goeltz
June 1990 **Proceedings of the 3rd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 IEA/AIE '90**

Publisher: ACM Press

Full text available:  pdf(1.02 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Communication Alarm Processor Expert System (CAP), developed at Oak Ridge National Laboratory for the Bonneville Power Administration, is a near real-time system that aids microwave communication system operators with interpreting the cause of large communication system problems [Purucker89]. Problems in the communications network are indicated by the real-time arrival of alarms at the central control site. CAP receives and processes these alarms, then presents the operator with a sorte ...

26 Rx: treating bugs as allergies---a safe method to survive software failures

 Feng Qin, Joseph Tucek, Jagadeesan Sundaresan, Yuanyuan Zhou
October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**, Volume 39 Issue 5

Publisher: ACM Press

Full text available:  pdf(245.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many applications demand availability. Unfortunately, software failures greatly reduce system availability. Prior work on surviving software failures suffers from one or more of the following limitations: Required application restructuring, inability to address deterministic software bugs, unsafe speculation on program execution, and long recovery time. This paper proposes an innovative safe technique, called Rx, which can quickly recover programs from many types of software bugs, both det ...

Keywords: availability, bug, reliability, software failure

27 Joint classifier and feature optimization for cancer diagnosis using gene expression data

 Balaji Krishnapuram, Lawrence Carin, Alexander J. Hartemink
April 2003 **Proceedings of the seventh annual international conference on Research in computational molecular biology RECOMB '03**

Publisher: ACM Press

Full text available:  pdf(392.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent research has demonstrated quite convincingly that accurate cancer diagnosis can be achieved by constructing classifiers that are designed to compare the gene expression profile of a tissue of unknown cancer status to a database of stored expression profiles from tissues of known cancer status. This paper introduces the JCFO, a novel algorithm that uses a sparse Bayesian approach to jointly identify both the optimal nonlinear classifier for diagnosis and the optimal set of genes on which t ...

Keywords: JCFO, RVM, SVM, classification, disease diagnosis, feature selection, joint optimization, sparse bayesian methods

28 Artificial intelligence in medicine: a personal retrospective on its emergence and early**function**

C. A. Kulikowski

December 1987 **Proceedings of ACM conference on History of medical informatics****Publisher:** ACM PressFull text available: [pdf\(862.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Methods of artificial intelligence were gradually introduced into clinical decision-making research from 1970 to 1974. Evolving from pattern recognition and general A.I. problem-solving ideas, such methods helped researchers crystallize the notions of knowledge-based systems by the mid-1970s. In 1978 the early systems gave way to either second-generation frameworks for general consultative reasoning or to new, more sophisticated knowledge representations. This paper traces some of the major ...

29 A belief management architecture for diagnostic problem solving

Serdar Uckun, Benoit M. Dawant, Gautam Biswas, Kazuhiko Kawamura

June 1990 **Proceedings of the 3rd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 IEA/AIE '90****Publisher:** ACM PressFull text available: [pdf\(977.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An architecture for diagnosis that uses qualitative endorsements as its principal method of uncertainty abstraction and propagation is presented. The framework performs local belief computations in a hierarchical hypothesis space, in contrast with methods that propagate evidence throughout the whole frame of discernment. In this system, global control of the decision making process is maintained by local evaluations of belief status. These local evaluations determine an active focus in which ...

30 Exploring knowledge acquisition tools for a veterinary medical expert system

M. McLeish

June 1988 **Proceedings of the 1st international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2 IEA/AIE '88****Publisher:** ACM PressFull text available: [pdf\(679.12 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**31 Learning belief networks from data: an information theory based approach**

Jie Cheng, David A. Bell, Weiru Liu

January 1997 **Proceedings of the sixth international conference on Information and knowledge management****Publisher:** ACM PressFull text available: [pdf\(1.00 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**32 A Bayesian approach to fault classification**

Tein-Hsiang Lin, Kang G. Shin

April 1990 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1990 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '90**, Volume 18 Issue 1**Publisher:** ACM PressFull text available: [pdf\(876.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

According to their temporal behavior, faults in computer systems are classified into permanent, intermittent, and transient faults. Since it is impossible to identify the type of a fault upon its first detection, the common practice is to retry the failed instruction one or

more times and then use other fault recovery methods, such as rollback or restart, if the retry is not successful. To determine an "optimal" (in some sense) number of retries, we need to know several fault pa ...

33 The complexity of logic-based abduction

 Thomas Eiter, Georg Gottlob

January 1995 **Journal of the ACM (JACM)**, Volume 42 Issue 1

Publisher: ACM Press

Full text available:  pdf(3.02 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Abduction is an important form of nonmonotonic reasoning allowing one to find explanations for certain symptoms or manifestations. When the application domain is described by a logical theory, we speak about logic-based abduction. Candidates for abductive explanations are usually subjected to minimality criteria such as subset-minimality, minimal cardinality, minimal weight, or minimality under prioritization of individual hypotheses. This paper presents a comprehensive com ...

Keywords: abduction, complexity analysis, diagnosis, propositional logic, reasoning

34 Induction of models under uncertainty

 P Cheeseman

December 1986 **Proceedings of the ACM SIGART international symposium on Methodologies for intelligent systems**

Publisher: ACM Press

Full text available:  pdf(977.45 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper outlines a procedure for performing induction under uncertainty. This procedure uses a probabilistic representation and uses Bayes' theorem to decide between alternative hypotheses (theories). This procedure is illustrated by a robot with no prior world experience performing induction on data it has gathered about the world. The particular inductive problem is the formation class descriptions both for the tutored and untutored cases. The resulting class definitions are inherently p ...

35 Text analysis: "Expertness" from structured text?: RECONSIDER: a diagnostic prompting program

Mark S. Tuttle, David D. Sherertz, Marsden S. Blois, Stuart Nelson

February 1983 **Proceedings of the first conference on Applied natural language processing**

Publisher: Association for Computational Linguistics

Full text available:  pdf(650.67 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#)

[Publisher Site](#)

RECONSIDER is an interactive diagnostic prompting program which uses simple information retrieval techniques to prompt a physician regarding possible diagnoses, given a list of positive patient findings. Its knowledge base consists of "structured text" definitions of 3262 diseases and a synonym dictionary Patient findings, and their synonyms, are matched against inverted files of terms from the disease descriptions, the number and selectivity of the patient findings matching terms in a gi ...

36 Task-structure analysis for knowledge modeling

 B. Chandrasekaran, Todd R. Johnson, Jack W. Smith

September 1992 **Communications of the ACM**, Volume 35 Issue 9

Publisher: ACM Press

Full text available:  pdf(2.77 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: analysis, modeling

37 Evaluation of an inference network-based retrieval model Howard Turtle, W. Bruce CroftJuly 1991 **ACM Transactions on Information Systems (TOIS)**, Volume 9 Issue 3**Publisher:** ACM PressFull text available:  pdf(2.40 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)**38 Learning with mixtures of trees**

Marina Meila, Michael I. Jordan

September 2001 **The Journal of Machine Learning Research**, Volume 1**Publisher:** MIT PressFull text available:  pdf(400.02 KB)Additional Information: [full citation](#), [abstract](#), [citations](#)

This paper describes the mixtures-of-trees model, a probabilistic model for discrete multidimensional domains. Mixtures-of-trees generalize the probabilistic trees of Chow and Liu (1968) in a different and complementary direction to that of Bayesian networks. We present efficient algorithms for learning mixtures-of-trees models in maximum likelihood and Bayesian frameworks. We also discuss additional efficiencies that can be obtained when data are "sparse," and we present data structures and alg ...

39 Decision-theoretic troubleshooting David Heckerman, John S. Breese, Koos RommelseMarch 1995 **Communications of the ACM**, Volume 38 Issue 3**Publisher:** ACM PressFull text available:  pdf(4.10 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

You have just finished typing that big report into your word processor. It is formatted correctly and looks beautiful on the screen. You hit print, go to the printer—and nothing is there. Your try again—still nothing. The report needs to go out today. What do you do?

40 Multi Relational Data Mining (MRDM): Probabilistic logic learning Luc De Raedt, Kristian KerstingJuly 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 1**Publisher:** ACM PressFull text available:  pdf(1.98 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The past few years have witnessed an significant interest in probabilistic logic learning, i.e. in research lying at the intersection of probabilistic reasoning, logical representations, and machine learning. A rich variety of different formalisms and learning techniques have been developed. This paper provides an introductory survey and overview of the state-of-the-art in probabilistic logic learning through the identification of a number of important probabilistic, logical and learning concept ...

Keywords: data mining, inductive logic programming, machine learning, multi-relational data mining, probabilistic reasoning, uncertainty

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41 [Technique for automatically correcting words in text](#)



Karen Kukich
December 1992 ACM Computing Surveys (CSUR), Volume 24 Issue 4

Publisher: ACM Press

Full text available: [pdf\(6.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems: (1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction



42 [Understanding Bayesian reasoning via graphical displays](#)



W. G. Cole
March 1989 ACM SIGCHI Bulletin , Proceedings of the SIGCHI conference on Human factors in computing systems: Wings for the mind CHI '89, Volume 20 Issue SI

Publisher: ACM Press

Full text available: [pdf\(631.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bayesian reasoning, updating subjective probability in light of new information, is notoriously difficult. One factor that may contribute to this difficulty is lack of a mental model for how to combine the three key parameters in any Bayesian problem. An experiment was conducted contrasting four representations of Bayesian problems: three types of diagrams and a two by two contingency table. All four representations led to extremely good performance on a Bayesian task. This advantage also e ...



43 [Propositional and relational Bayesian networks associated with imprecise and qualitative probabilistic assessments](#)

Fabio Gagliardi Cozman, Cassio Polpo de Campos, Jaime Shinsuke Ide, José Carlos Ferreira da Rocha

July 2004 **Proceedings of the 20th conference on Uncertainty in artificial intelligence AUAI '04**

Publisher: AUAI Press

Full text available: [pdf\(340.75 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper investigates a representation language with flexibility inspired by probabilistic logic and compactness inspired by relational Bayesian networks. The goal is to handle propositional and first-order constructs together with precise, imprecise, indeterminate and qualitative probabilistic assessments. The paper shows how this can be achieved through the theory of credal networks. New exact and approximate inference algorithms based on multilinear programming and iterated/loopy propagation ...

44 The background of INTERNIST I and QMR



J. D. Myers

December 1987 **Proceedings of ACM conference on History of medical informatics**

Publisher: ACM Press

Full text available: [pdf\(368.45 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



During my tenure as Chairman of the Department of Medicine at the University of Pittsburgh, 1955 to 1970, two points became clear in regard to diagnosis in internal medicine. The first was that the knowledge base in that field had become vastly too large for any single person to encompass it. The second point was that the busy practitioner, even though he knew the items of information pertinent to his patients correct diagnosis, often did not consider the right answer particularly if the di ...

45 Belief networks in construction simulation

Brenda McCabe

December 1998 **Proceedings of the 30th conference on Winter simulation**

Publisher: IEEE Computer Society Press

Full text available: [pdf\(104.82 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



46 Applications of machine learning and rule induction



Pat Langley, Herbert A. Simon

November 1995 **Communications of the ACM**, Volume 38 Issue 11

Publisher: ACM Press

Full text available: [pdf\(554.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)



Machine learning is the study of computational methods for improving performance by mechanizing the acquisition of knowledge from experience. Expert performance requires much domain-specific knowledge, and knowledge engineering has produced hundreds of AI expert systems that are now used regularly in industry. Machine learning aims to provide increasing levels of automation in the knowledge engineering process, replacing much time-consuming human activity with automatic tec ...

47 New direction for uncertainty reasoning in deductive databases



U. Güntzer, W. Kießling, H. Thöne

April 1991 **ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD international conference on Management of data SIGMOD '91**, Volume 20 Issue 2

Publisher: ACM Press

Full text available: [pdf\(923.93 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



48 Spatial decision support system for land assessment



Cláudio Chauke Nehme, Margareth Simões

November 1999 **Proceedings of the 7th ACM international symposium on Advances in geographic information systems**

Publisher: ACM Press

Full text available: [pdf\(117.01 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



Keywords: GIS, agriculture planning, artificial intelligence, decision support system, expert system, geoinformatics, geoinformation system, land evaluation, land use planning

49 Applied probabilistic AI for online diagnosis of a safety-critical system based on a



 quality assurance program

Johannes Lauber, Christian Steger, Reinhold Weiss

February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available:  [pdf\(669.90 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: dynamic Bayesian network, high-assurance system, online diagnosis, probabilistic causal reasoning

50 Risks to the public: Risks to the public



 Peter G. Neumann

May 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(177.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated.

Opinions expressed are individual rather than organizational, and all of the usual disclaimers apply. We address problems relating to software, hardware, people, and other circumstances relating to computer systems. To economize on space, we include pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

51 Conference abstracts



 January 1977 **Proceedings of the 5th annual ACM computer science conference**

Publisher: ACM Press

Full text available:  [pdf\(3.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

52 A Monte Carlo based simulation network model for a chronic progressive disease: the case of diabetic retinopathy



Joseph K. Canner, Yen-Pin Chiang, Jonathan C. Javitt

December 1992 **Proceedings of the 24th conference on Winter simulation**

Publisher: ACM Press

Full text available:  [pdf\(880.37 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

53 Industry/government track paper: An approach to spacecraft anomaly detection problem using kernel feature space



Ryohei Fujimaki, Takehisa Yairi, Kazuo Machida

August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05**

Publisher: ACM Press

Full text available:  [pdf\(664.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Development of advanced anomaly detection and failure diagnosis technologies for spacecraft is a quite significant issue in the space industry, because the space environment is harsh, distant and uncertain. While several modern approaches based on qualitative reasoning, expert systems, and probabilistic reasoning have been developed recently for this purpose, any of them has a common difficulty in obtaining accurate and complete *a priori* knowledge on the space systems from human experts. ...

Keywords: anomaly detection, kernel feature space, principal component analysis, spacecraft, time series data, von Mises Fisher distribution

54 Inference networks for document retrieval

 H. Turtle, W. B. Croft

December 1989 **Proceedings of the 13th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available:  pdf(1.65 MB)

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The use of inference networks to support document retrieval is introduced. A network-based retrieval model is described and compared to conventional probabilistic and Boolean models.

55 On the conversion of rule bases into belief networks

 Shijie Wang, Marco Valtorta

April 1992 **Proceedings of the 1992 ACM/SIGAPP Symposium on Applied computing: technological challenges of the 1990's**

Publisher: ACM Press

Full text available:  pdf(697.06 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

56 PIC matrices: a computationally tractable class of probabilistic query operators

 Warren R. Greiff, W. Bruce Croft, Howard Turtle

October 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 4

Publisher: ACM Press

Full text available:  pdf(239.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The inference network model of information retrieval allows a probabilistic interpretation of query operators. In particular, Boolean query operators are conveniently modeled as link matrices of the Bayesian Network. Prior work has shown, however, that these operators do not perform as well as the pnorm operators used for modeling query operators in the context of the vector space model. This motivates the search for alternative probabilistic formulations for these operators ...

Keywords: Bayesian networks, Boolean queries, computational complexity, inference networks, link matrices, piecewise linear functions, pnorm, probabilistic information retrieval, query operators

57 The base-rate fallacy and the difficulty of intrusion detection

 Stefan Axelsson

August 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3

Issue 3

Publisher: ACM Press

Full text available:  pdf(124.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many different demands can be made of intrusion detection systems. An important requirement is that an intrusion detection system be effective; that is, it should detect a

substantial percentage of intrusions into the supervised system, while still keeping the false alarm rate at an acceptable level. This article demonstrates that, for a reasonable set of assumptions, the false alarm rate is the limiting factor for the performance of an intrusion detection system. This is d ...

Keywords: base-rate fallacy, detection rate, false alarm rate, intrusion detection

58 Inferring calendar event attendance

 Elizabeth Mynatt, Joe Tullio

January 2001 **Proceedings of the 6th international conference on Intelligent user interfaces**

Publisher: ACM Press

Full text available:  [pdf\(351.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The digital personal calendar has long been established as an effective tool for supporting workgroup coordination. For the new class of ubiquitous computing applications, however, the calendar can also be seen as a sensor, providing both location and availability information to these applications. In most cases, however, the calendar represents a sequence of events that people could (or should) attend, not their actual daily activities. To assist in the accurate determination of user where ...

Keywords: bayesian networks, calendars, context-aware, groupware calendar systems, informal meeting scheduling, visualizing uncertainty

59 Cost/benefit based adaptive dialog: case study using empirical medical practice norms and intelligent split menus

Jim Warren

January 2001 **Australian Computer Science Communications , Proceedings of the 2nd Australasian conference on User interface AUIC '01**, Volume 23 Issue 5

Publisher: IEEE Computer Society , IEEE Computer Society Press

Full text available:  [pdf\(843.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

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The notion of an adaptive user interface, one that accommodates user needs based on knowledge of the task at hand, is compelling but difficult to make practical. This paper examines models of the utility (as balancing of cost and benefit) in the initiation of task-specific dialog based on conditional probability of user goals in context. Illustrations in this paper are based on an empirical model of General Practice (GP) medicine as derived from a large database of GP/patient encounters. Applica ...

60 A knowledge-based framework for belief change part I: foundations

Nir Friedman, Joseph Y. Halpern

March 1994 **Proceedings of the 5th conference on Theoretical aspects of reasoning about knowledge**

Publisher: Morgan Kaufmann Publishers Inc.

Full text available:  [pdf\(2.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

We propose a general framework in which to study belief change. We begin by defining belief in terms of knowledge and plausibility: an agent believes φ if he knows that φ is true in all the worlds he considers most plausible. We then consider some properties defining the interaction between knowledge and plausibility, and show how these properties affect the properties of belief. In particular, we show that by assuming two of the most natural properties, belief becomes a KD45 operator ...

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